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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY
Washington, D. C.

TIME OF SUNRISE AND SUNSET

Latitude 38° 30' - - Longitude 90°

(Station: St. Louis, Missouri)

Date	: September	: October	: November	: December	:
	: Sunrise:	: Sunset:	: Sunrise:	: Sunset:	: Sunrise:
1	: 5:30 :	6:30:	5:56 :	5:43:	6:27 :
2	: 5:30 :	6:29:	5:57 :	5:42:	6:28 :
3	: 5:31 :	6:28:	5:58 :	5:41:	6:29 :
4	: 5:32 :	6:26:	5:58 :	5:39:	6:30 :
5	: 5:33 :	6:25:	5:59 :	5:37:	6:31 :
6	: 5:34 :	6:23:	6:00 :	5:35:	6:32 :
7	: 5:35 :	6:22:	6:01 :	5:34:	6:33 :
8	: 5:36 :	6:20:	6:02 :	5:33:	6:34 :
9	: 5:36 :	6:19:	6:03 :	5:31:	6:36 :
10	: 5:37 :	6:17:	6:04 :	5:30:	6:37 :
11	: 5:38 :	6:15:	6:05 :	5:29:	6:38 :
12	: 5:39 :	6:14:	6:06 :	5:27:	6:39 :
13	: 5:40 :	6:12:	6:07 :	5:26:	6:40 :
14	: 5:41 :	6:11:	6:08 :	5:24:	6:41 :
15	: 5:42 :	6:09:	6:09 :	5:23:	6:42 :
16	: 5:42 :	6:07:	6:1 :	5:21:	6:43 :
17	: 5:43 :	6:06:	6:11 :	5:20:	6:44 :
18	: 5:44 :	6:04:	6:12 :	5:19:	6:45 :
19	: 5:45 :	6:02:	6:13 :	5:17:	6:46 :
20	: 5:46 :	6:01:	6:14 :	5:16:	6:48 :
21	: 5:47 :	5:59:	6:15 :	5:15:	6:49 :
22	: 5:48 :	5:58:	6:16 :	5:13:	6:50 :
23	: 5:48 :	5:56:	6:17 :	5:12:	6:51 :
24	: 5:49 :	5:55:	6:18 :	5:11:	6:52 :
25	: 5:50 :	5:53:	6:19 :	5:09:	6:53 :
26	: 5:51 :	5:51:	6:20 :	5:08:	6:54 :
27	: 5:52 :	5:50:	6:21 :	5:07:	6:55 :
28	: 5:53 :	5:48:	6:22 :	5:05:	6:56 :
29	: 5:54 :	5:47:	6:23 :	5:04:	6:57 :
30	: 5:55 :	5:45:	6:25 :	5:03:	6:58 :
31	: :	:	6:26 :	5:01:	:

It is unlawful to hunt, pursue, or take any migratory game bird between sunset and one-half hour before sunrise.

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EXPLANATION OF SUNRISE AND SUNSET TABLES, AND ACCOMPANYING MAP.

The tables are for the intersection of latitude $38^{\circ} 30'$ and longitude 90° .

The difference in time of setting or rising between a point on the southern border of Missouri, and a point due north on the northern border, is small. For instance, sunrise in central Taney County is not very different from the time of sunrise in central Putnam County. The greatest difference is between east and west. Progressing westward the sun rises and sets later if 90th meridian time, which is railroad time, is used. The difference is 4 minutes for a degree of longitude.

An example is time of sunset in northwestern Andrew County on November 1. On the 90th meridian the sun sets at 5.00 o'clock on November 1. Northwestern Andrew County is in longitude 95° , or 5° west of the 90th meridian. As the setting is 4 minutes later, progressing westward, for each degree of longitude, the difference in time of setting between the 90th meridian and the 95th meridian is 20 minutes. Hence 5.00 plus 20, which is 5.20, is the time the sun sets in northwestern Andrew County on November 1.

A rule for obtaining time of sunrise or sunset can be expressed in these words: (1) Find the time of sunrise, or sunset, for the day in question from the tables. (2) From the map find which degree of longitude the place in question is nearest, and subtract 90 from the number of this degree. (3) Multiply the remainder by 4, and add the product to the time previously found from the tables. The answer, of course, will not always be absolutely correct, but it will be unusual to have an error of as much as 4 or 5 minutes.

